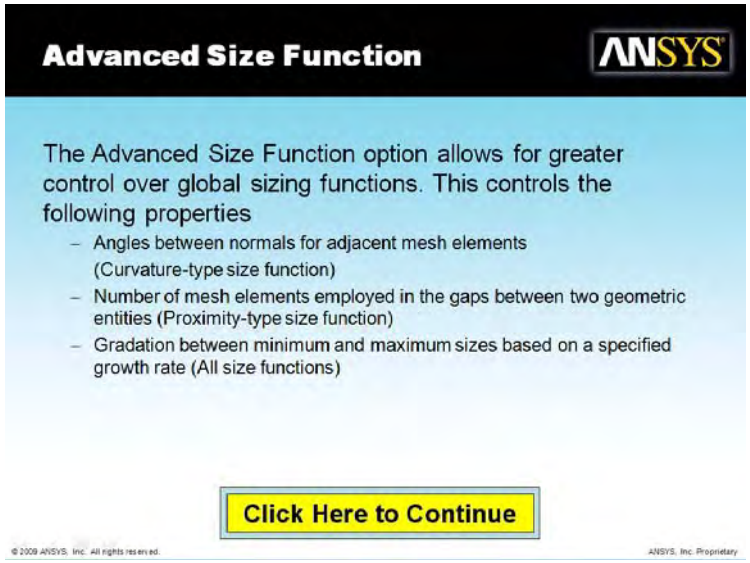
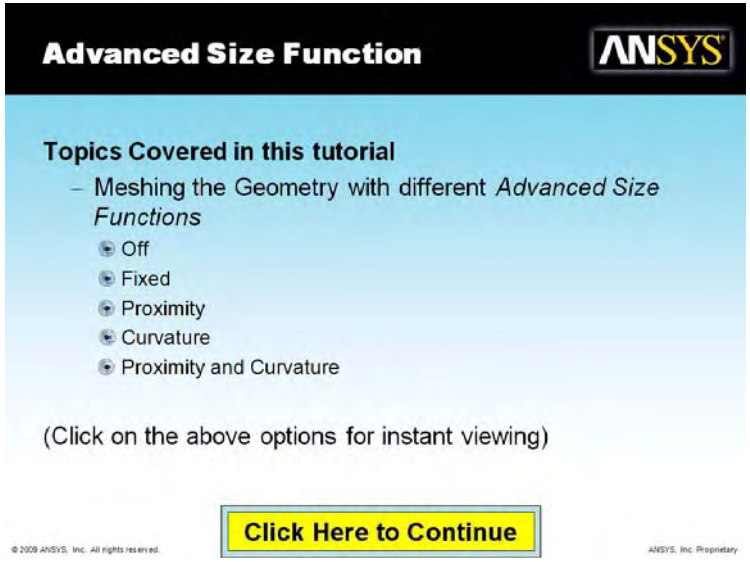
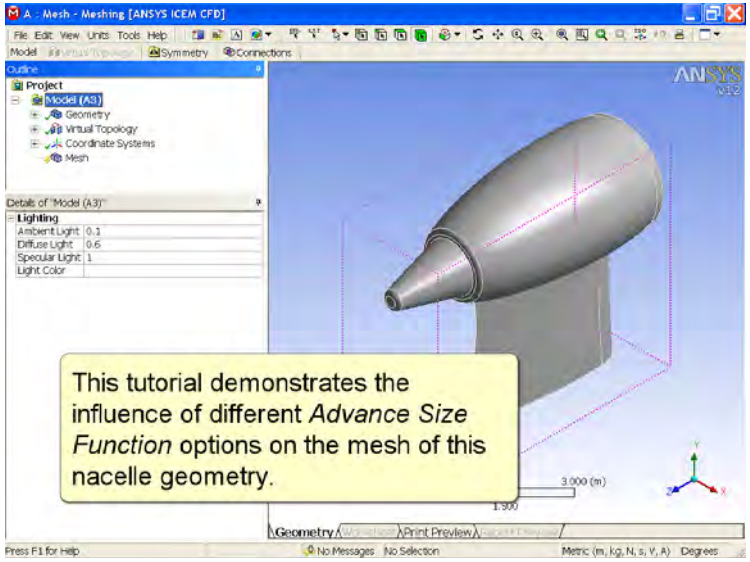
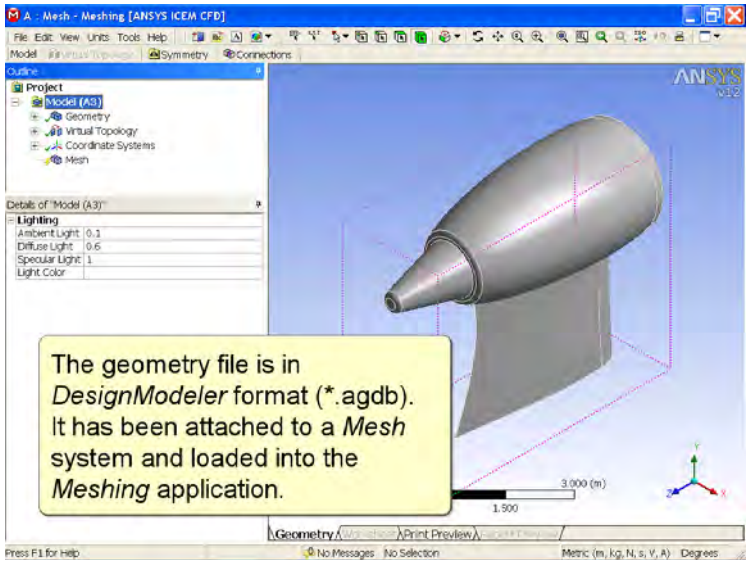
Meshing - Advanced Size Function

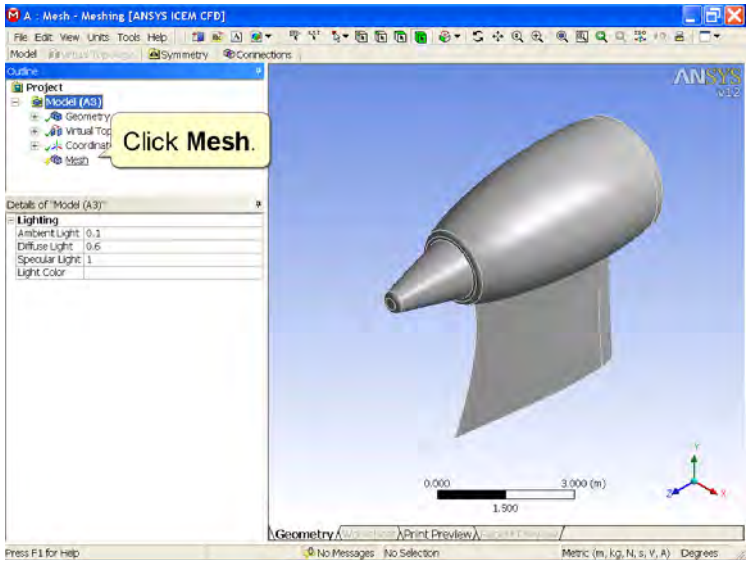


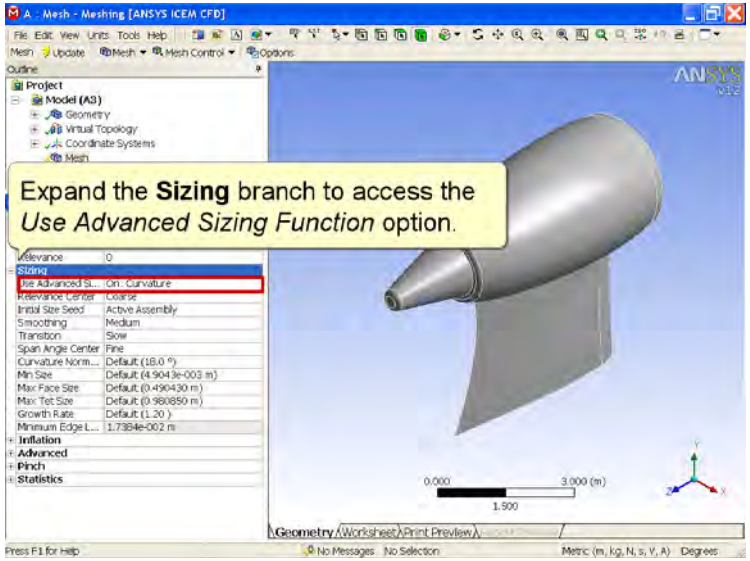


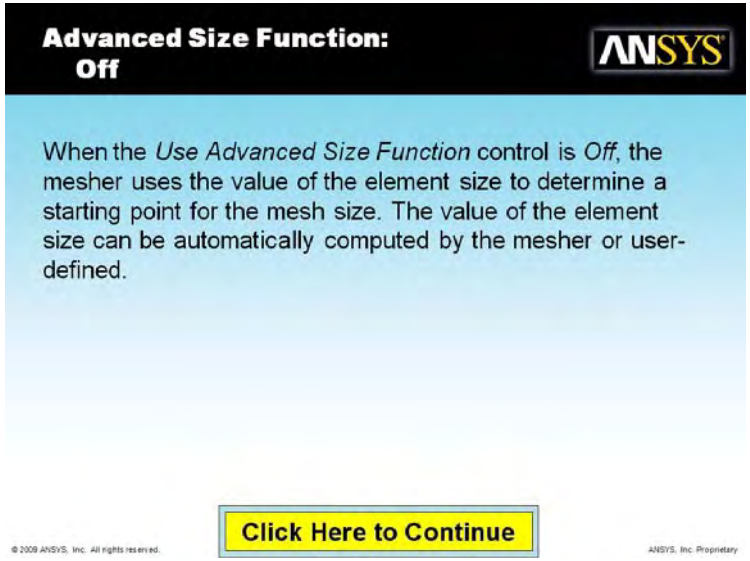


Meshing - Advanced Size Function

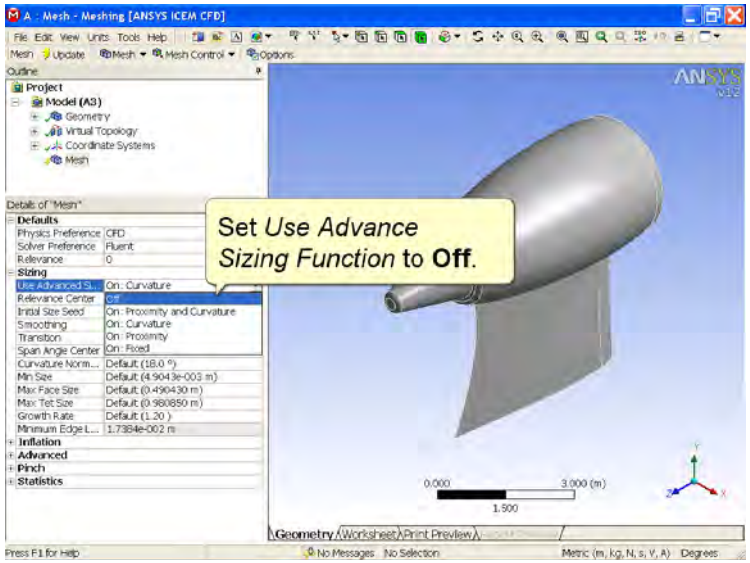


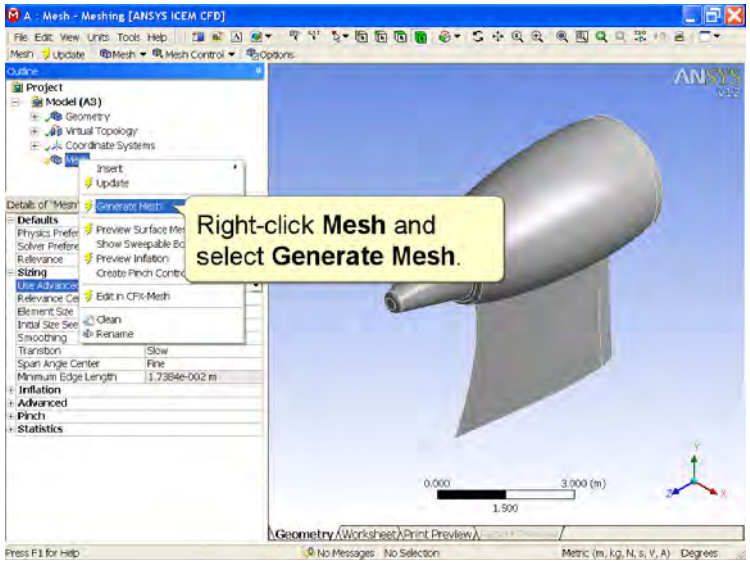


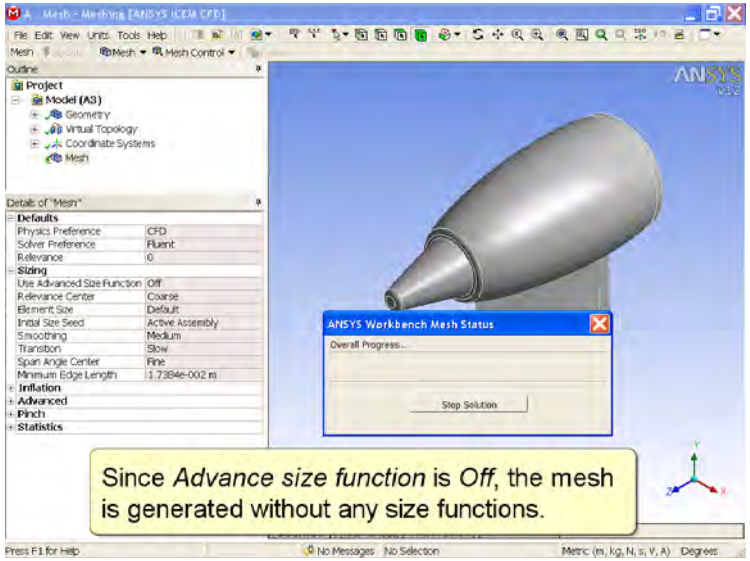


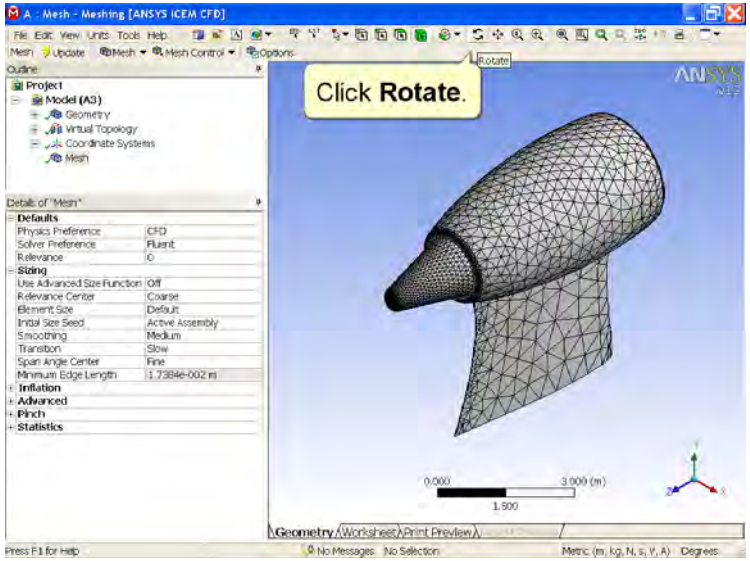


Meshing - Advanced Size Function

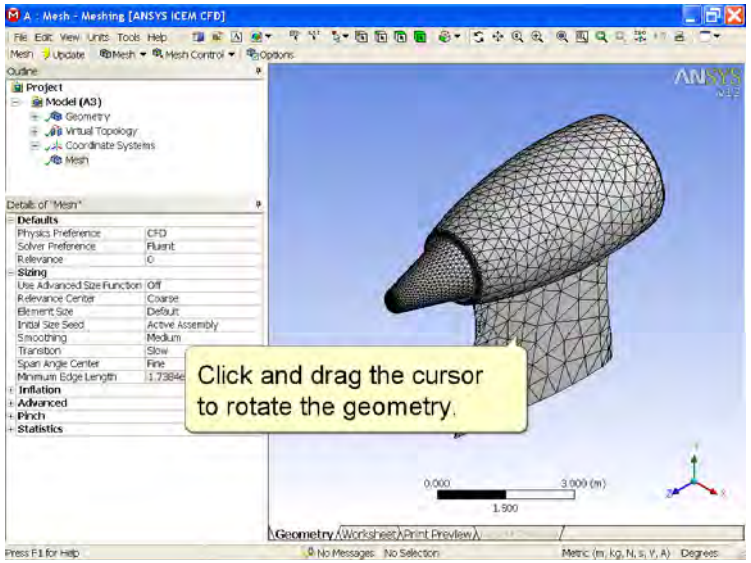


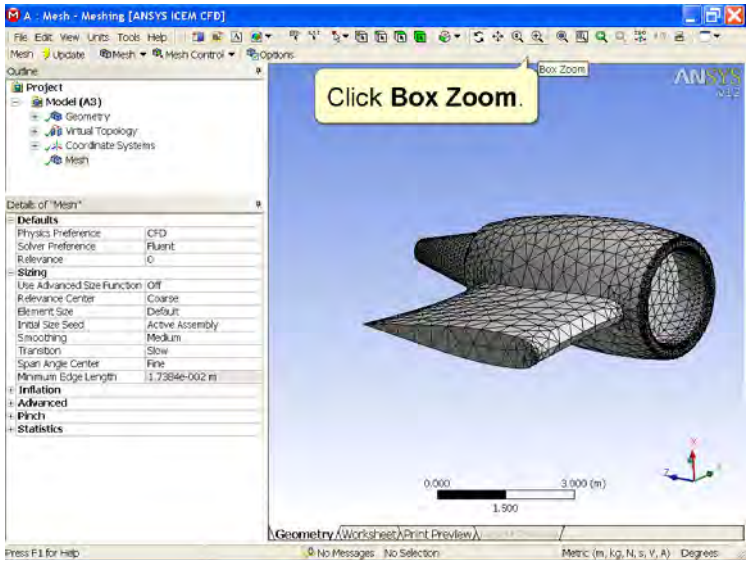


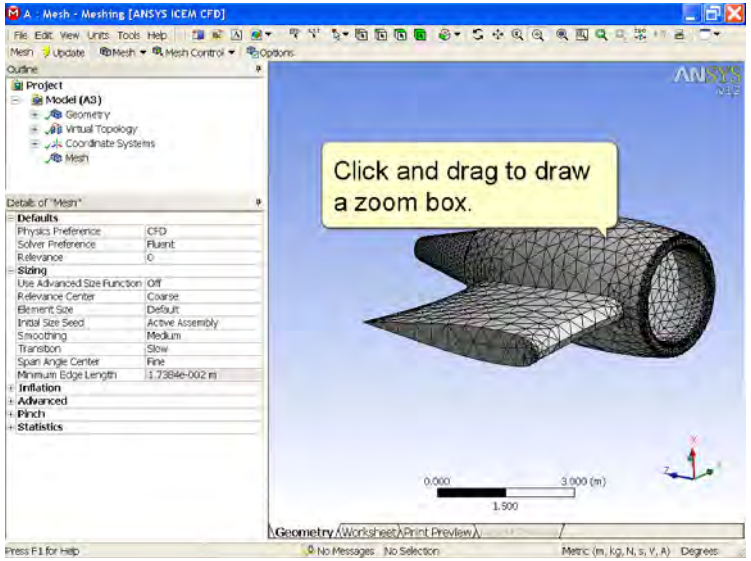


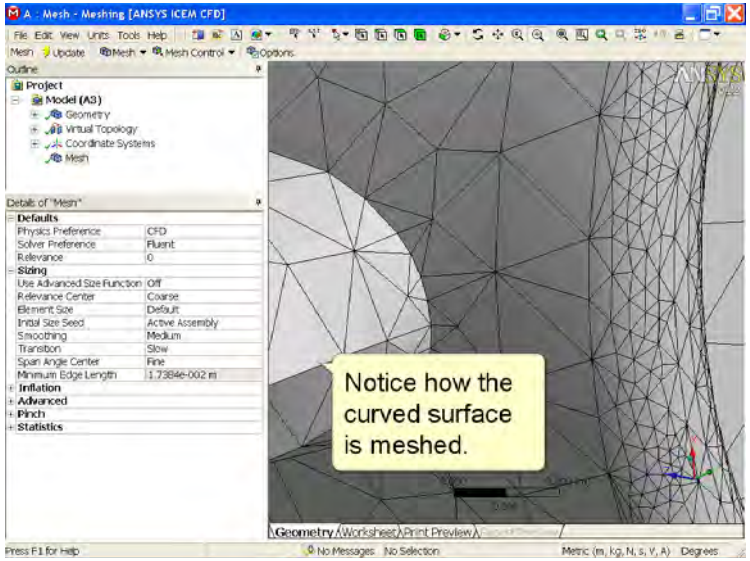


Meshing - Advanced Size Function

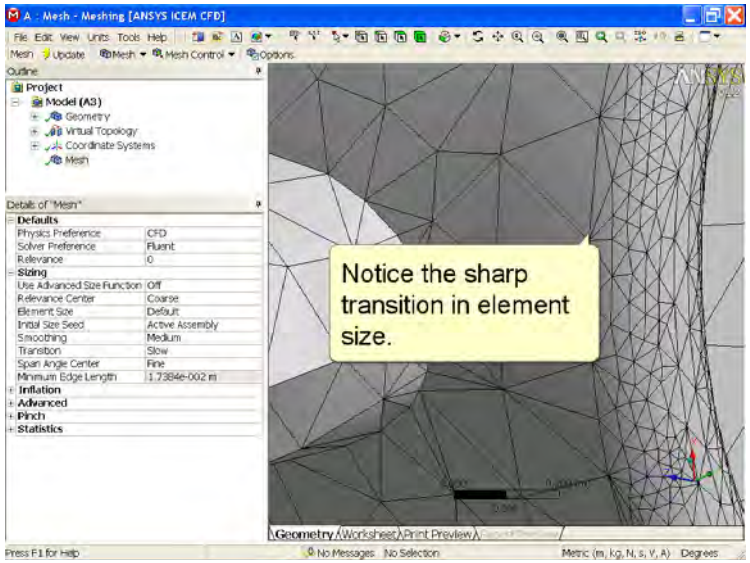


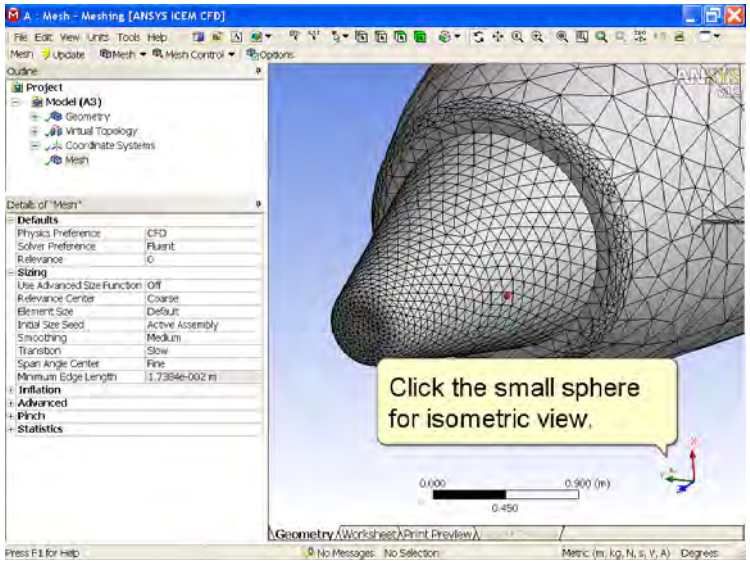






Meshing - Advanced Size Function



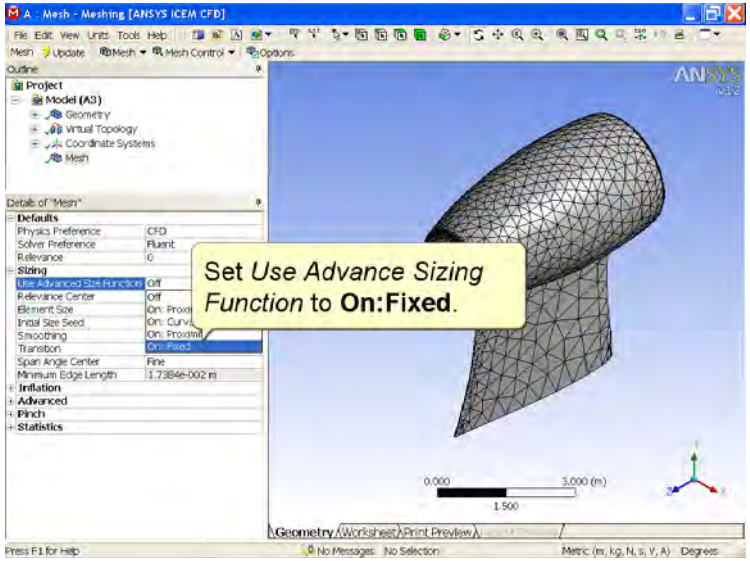


Advanced Size Function: On: Fixed

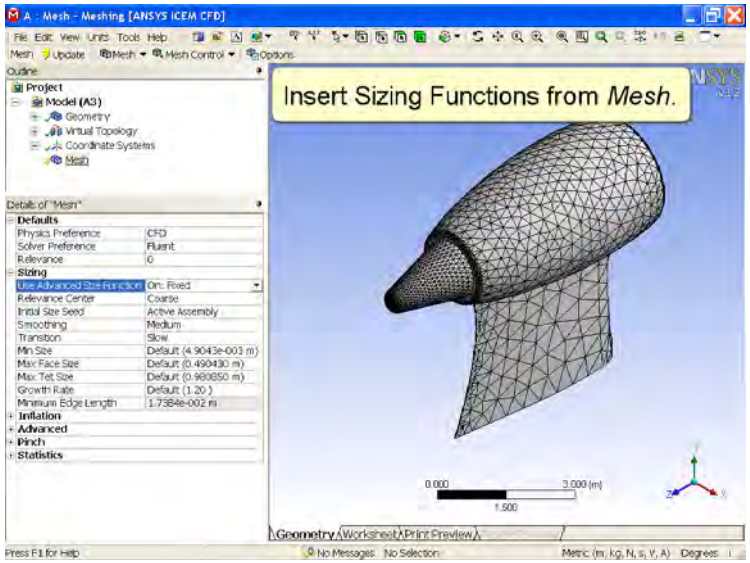
When the *Advanced Size Function* is *On* and set to *Fixed* the following factors contribute to the final mesh distribution obtained by the mesher:

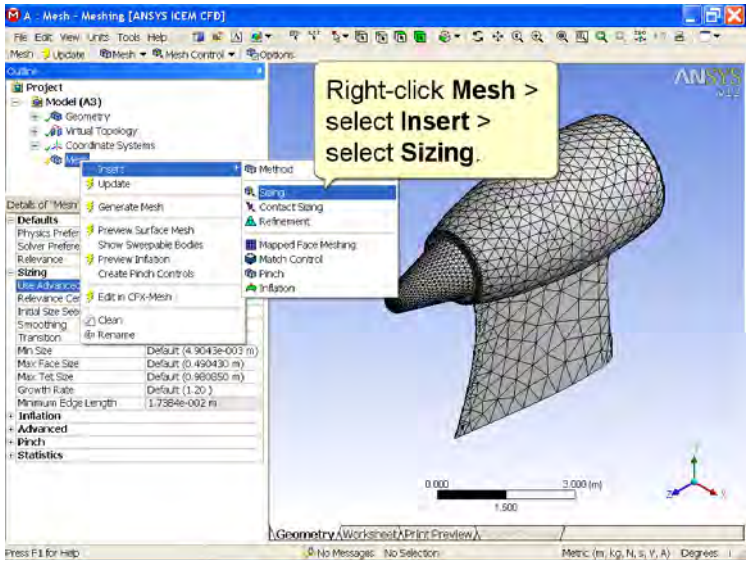
- Min Size
- Max Face Size
- Max Tet Size
- Growth Rate

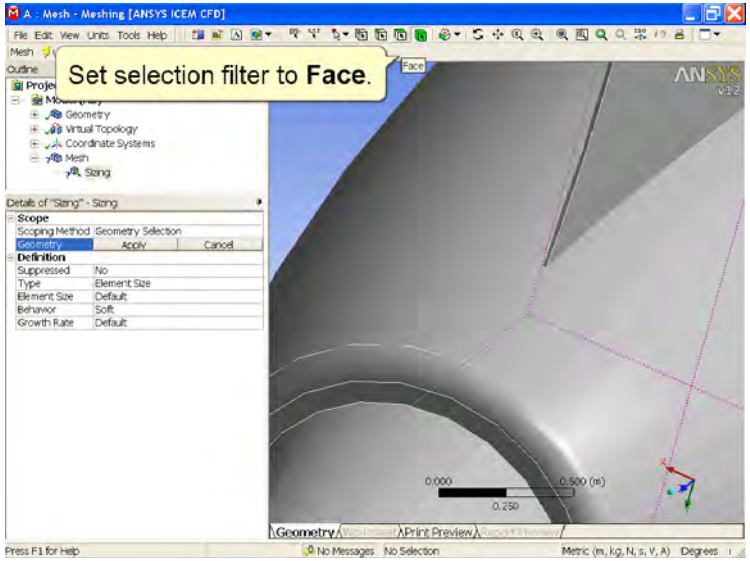
Click Here to Continue

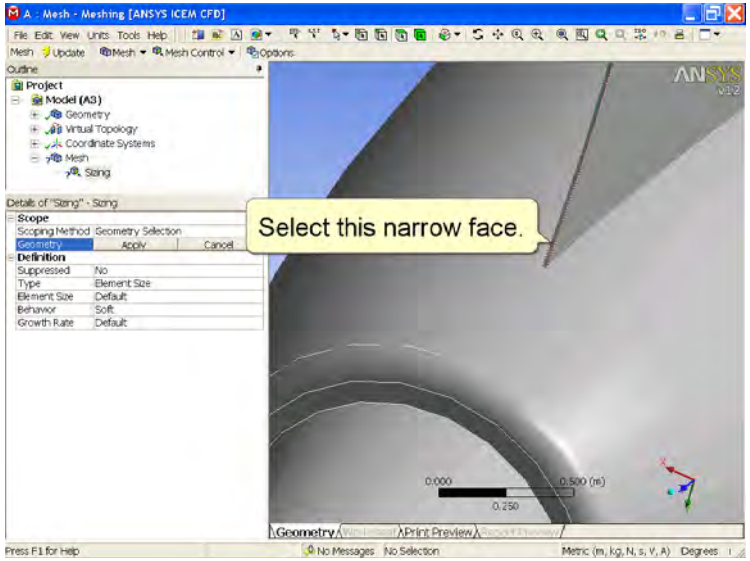


Meshing - Advanced Size Function

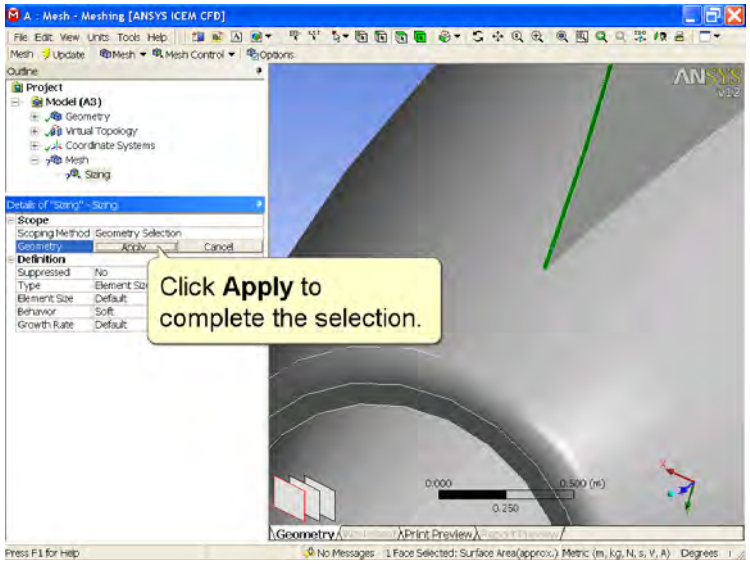


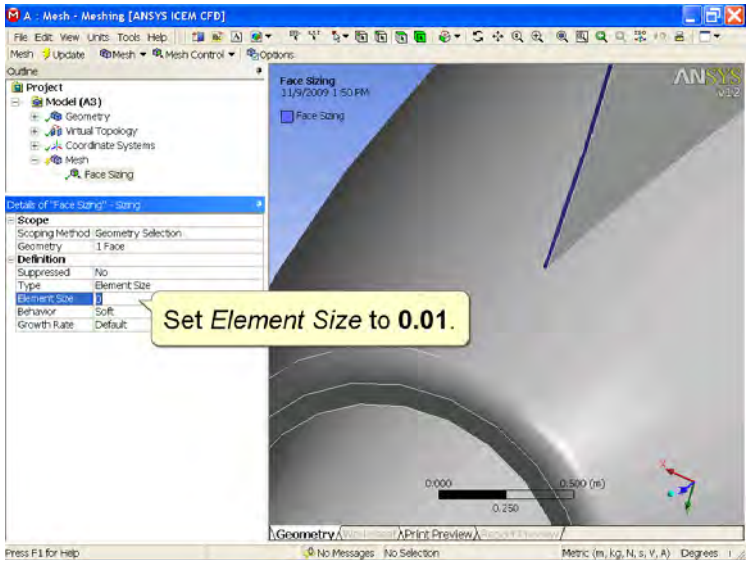


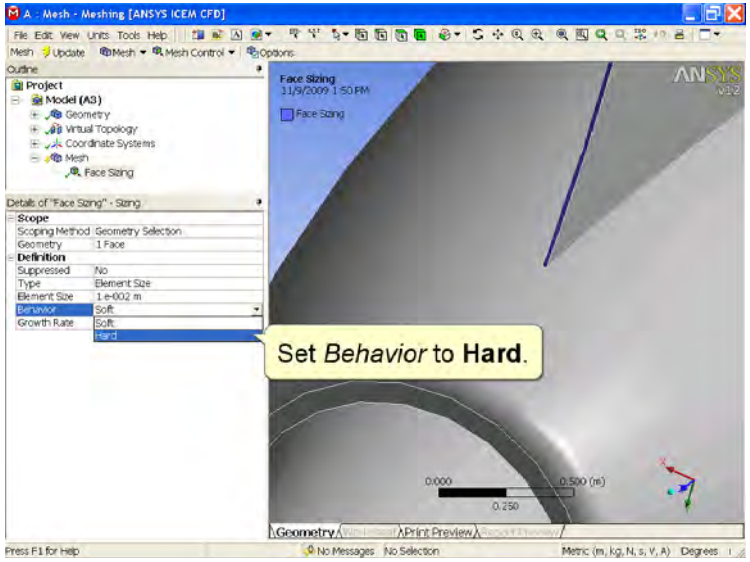


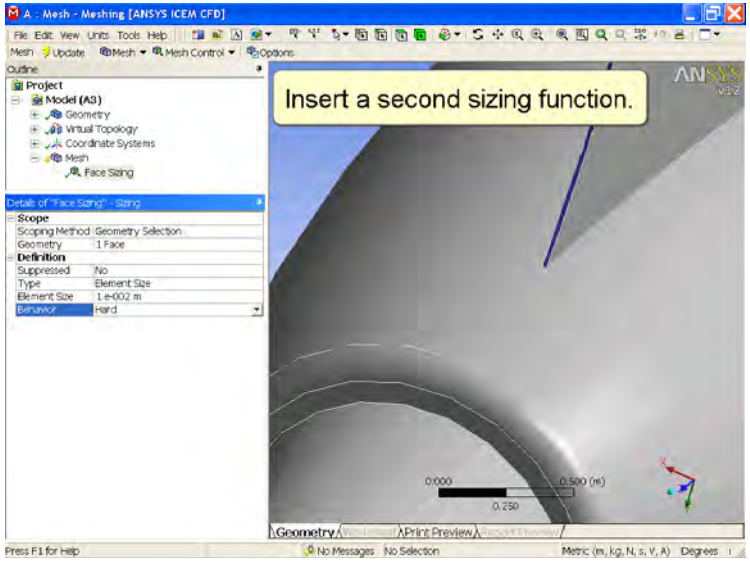


Meshing - Advanced Size Function

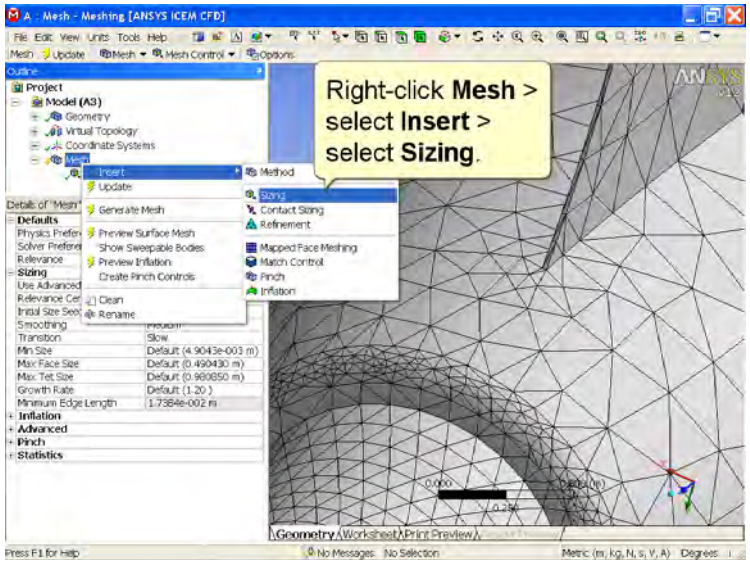


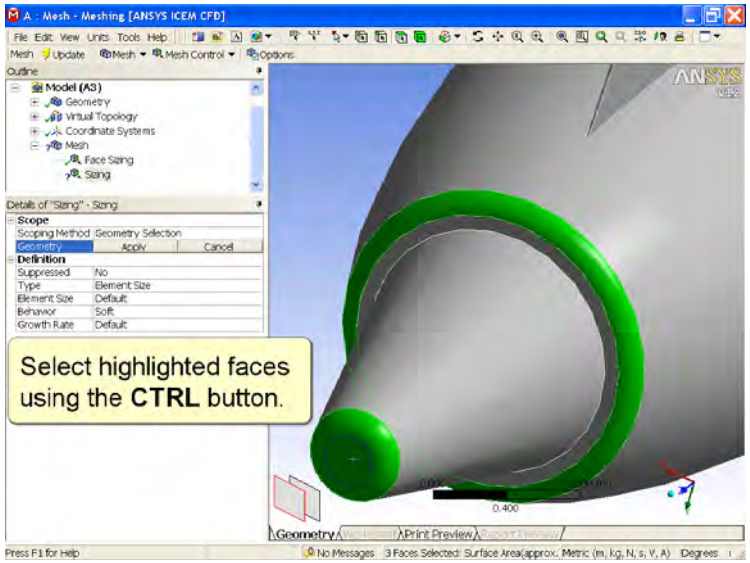


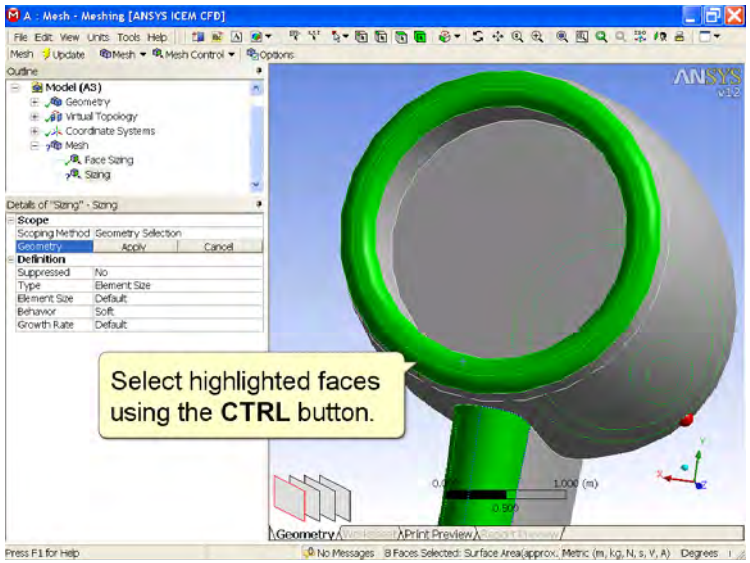


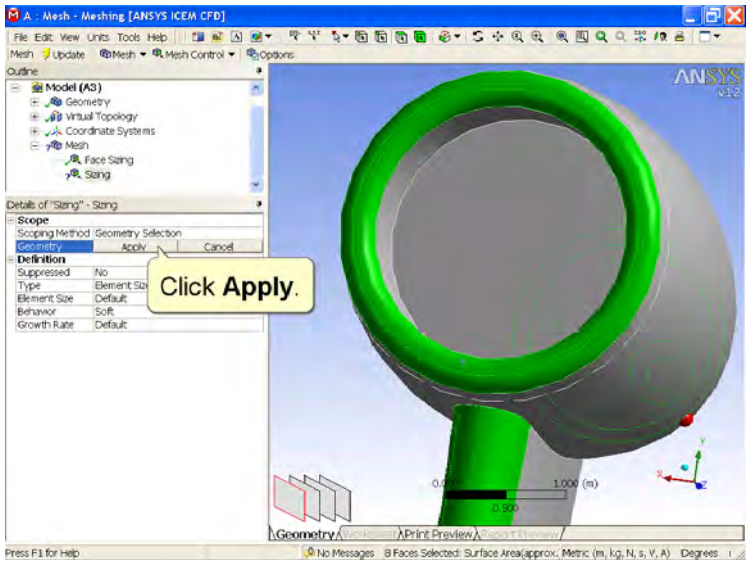


Meshing - Advanced Size Function

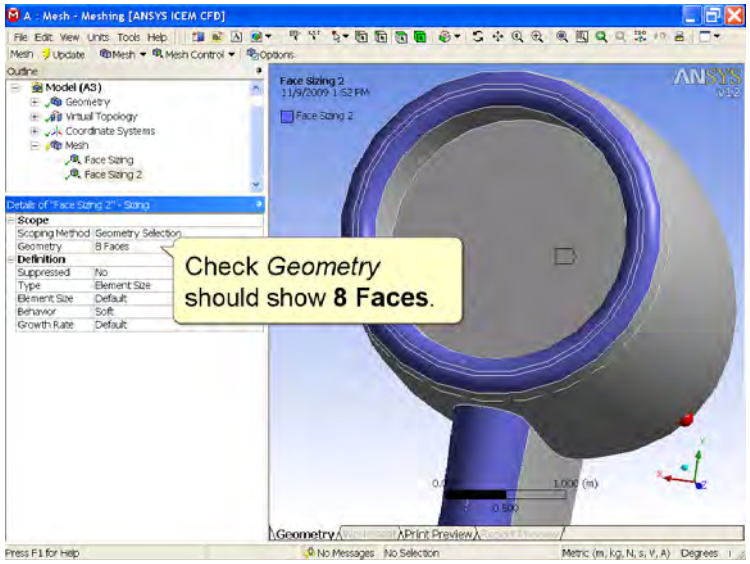


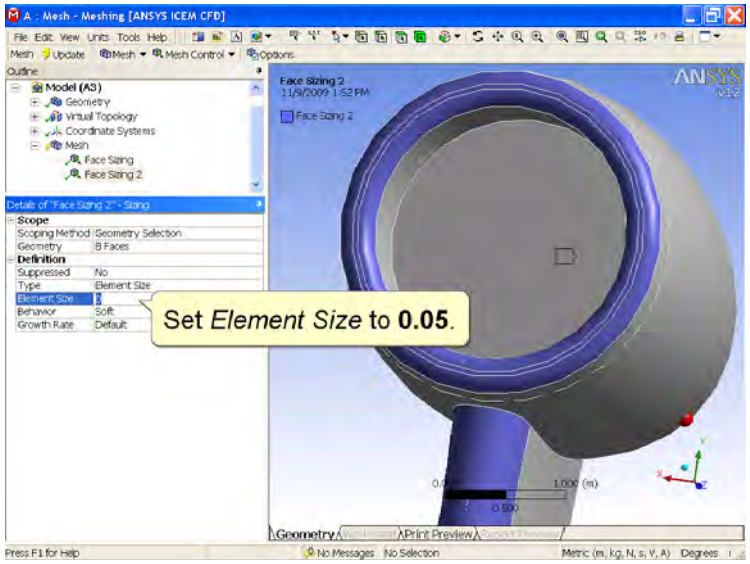


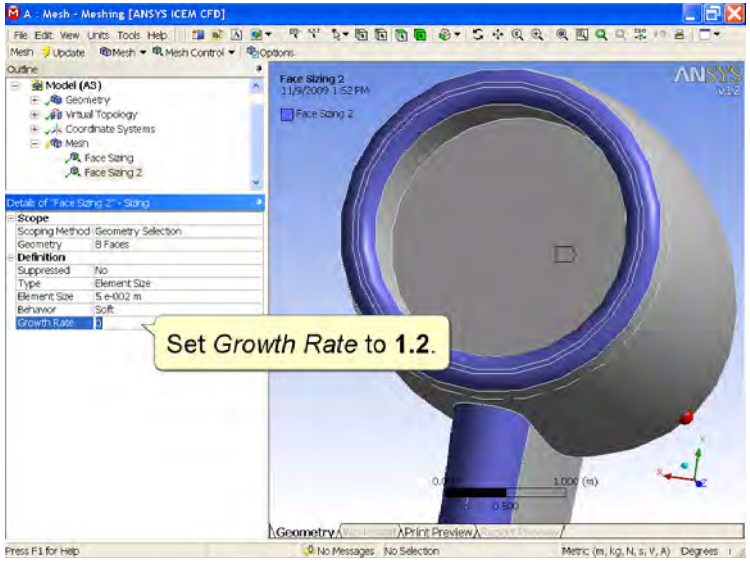


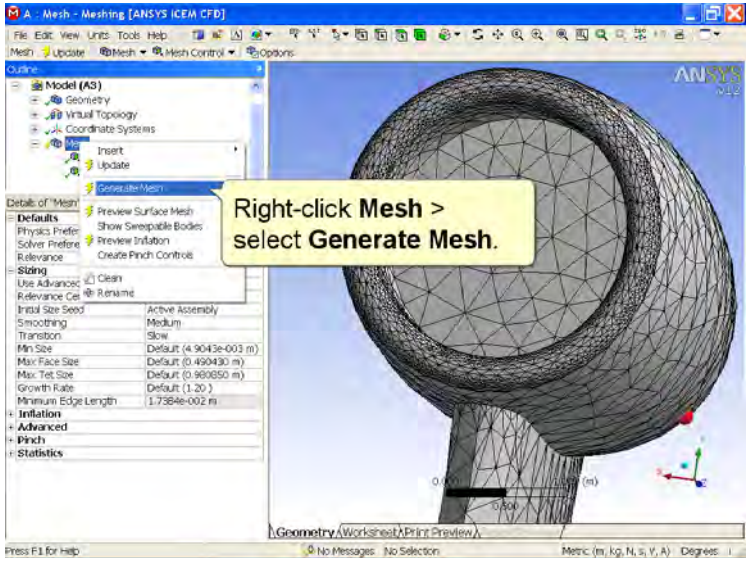


Meshing - Advanced Size Function

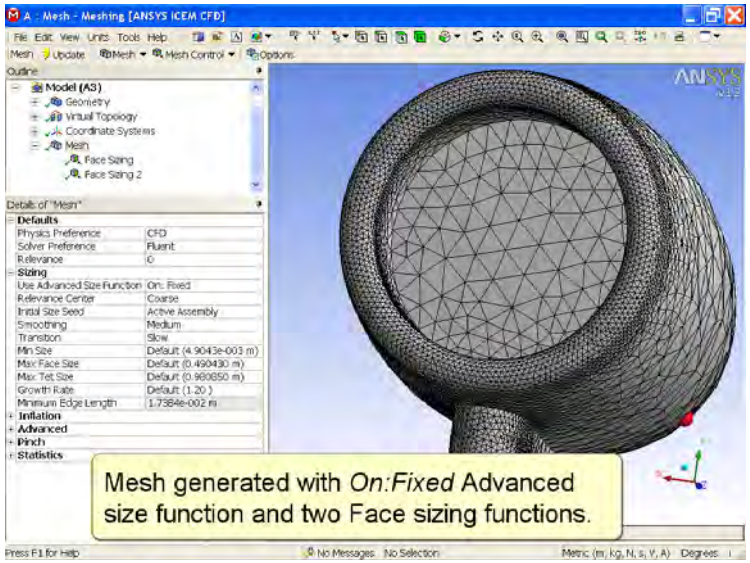


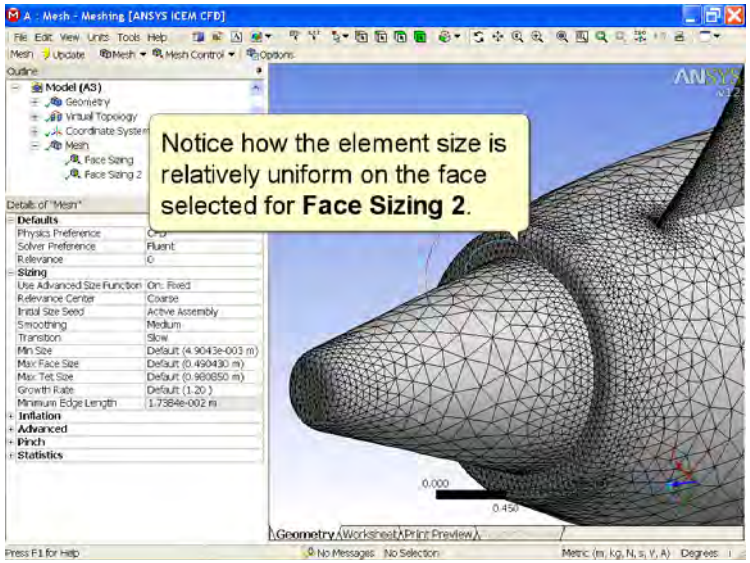


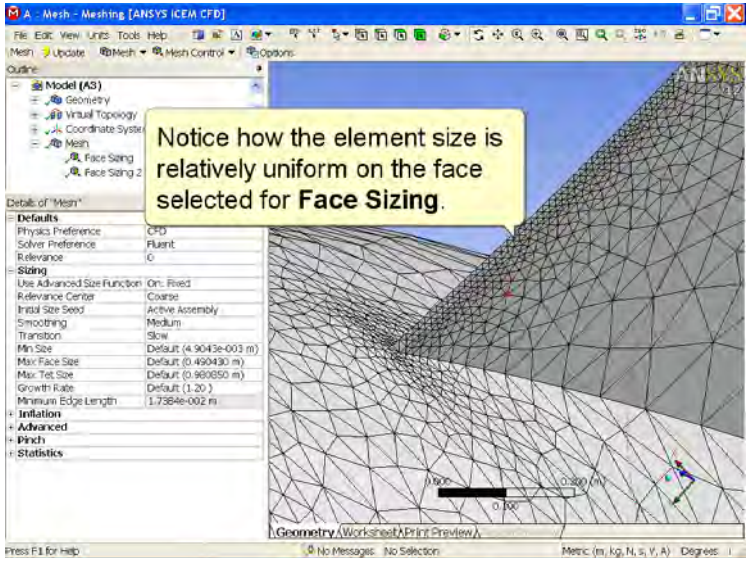




Meshing - Advanced Size Function







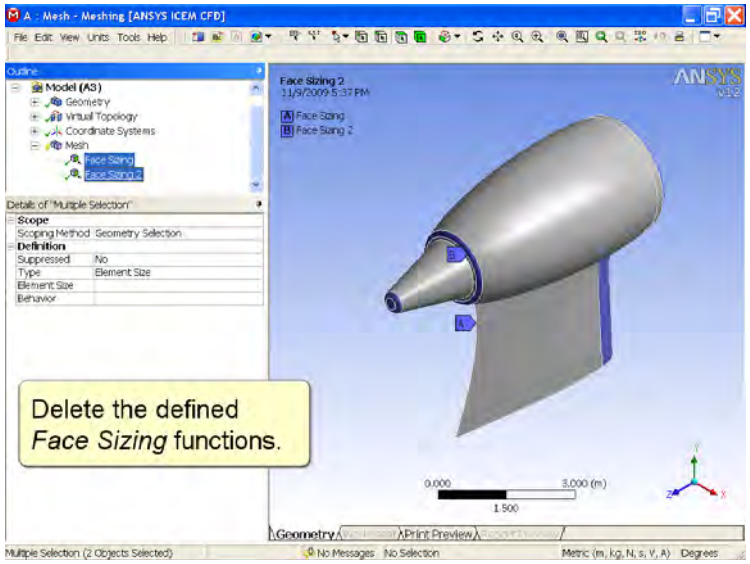
Advanced Size Function: On: Proximity

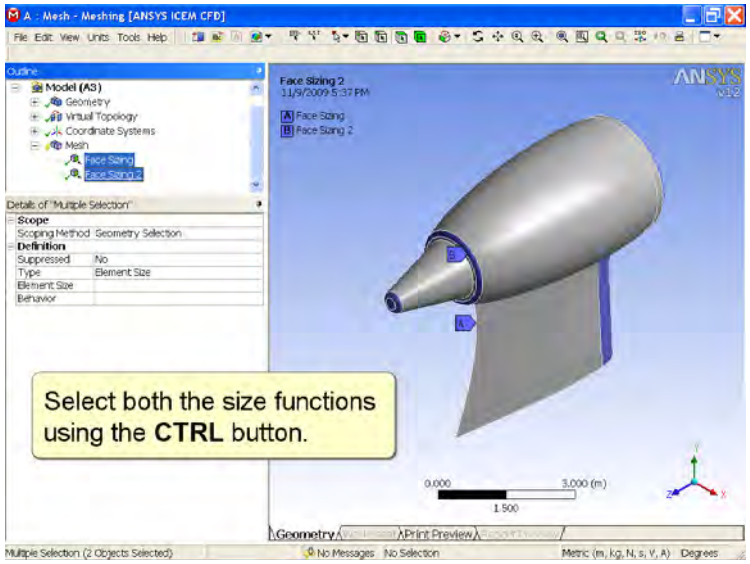
The *Proximity Size Function* allows you to specify the minimum number of element layers created in regions that constitute "gaps" in the model. For the purposes of specifying a proximity size function, a "gap" is defined in one of two ways:

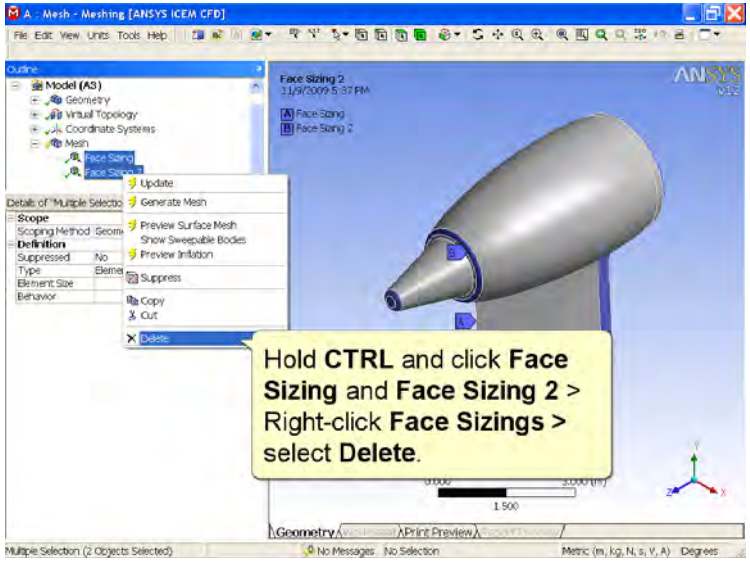
- The internal volumetric region between two faces
- The area between two opposing boundary edges of a face

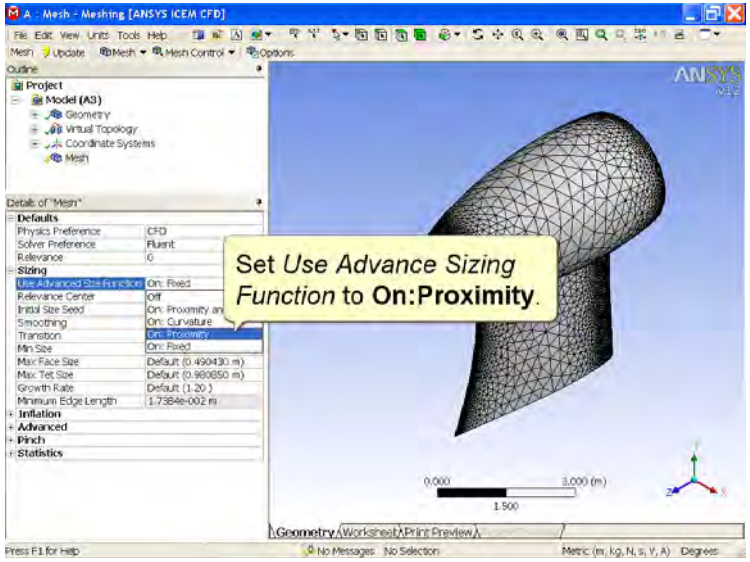
Click Here to Continue

Meshing - Advanced Size Function

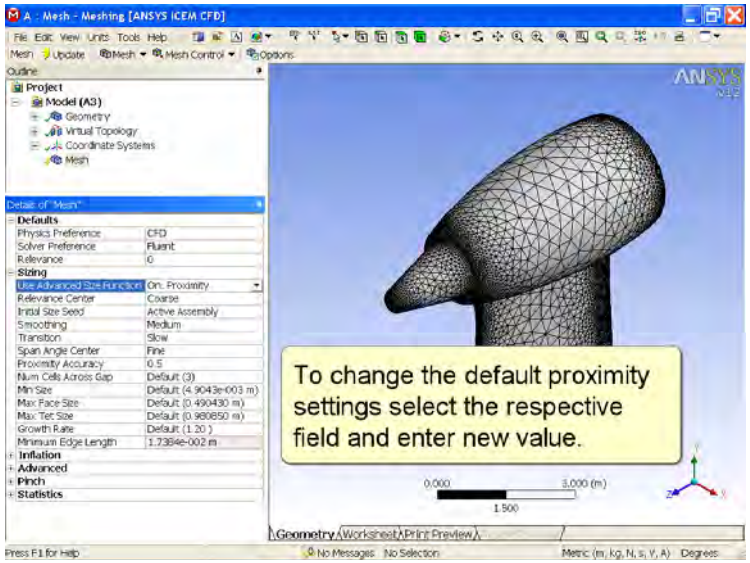


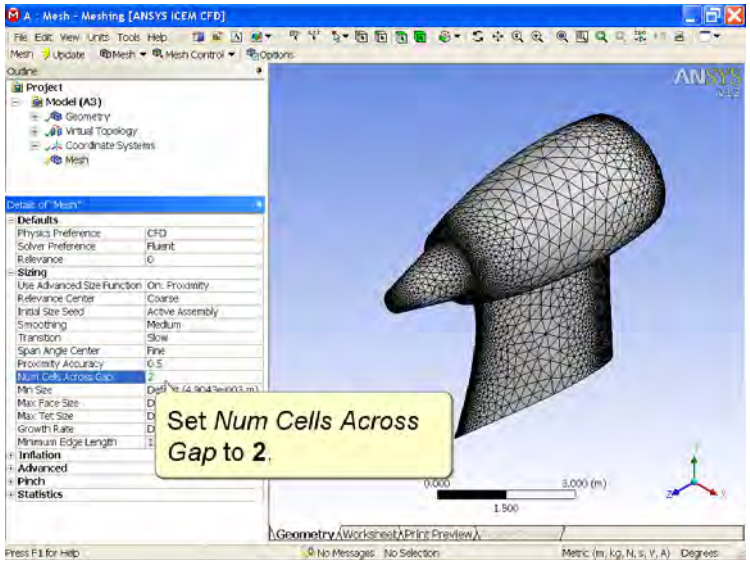


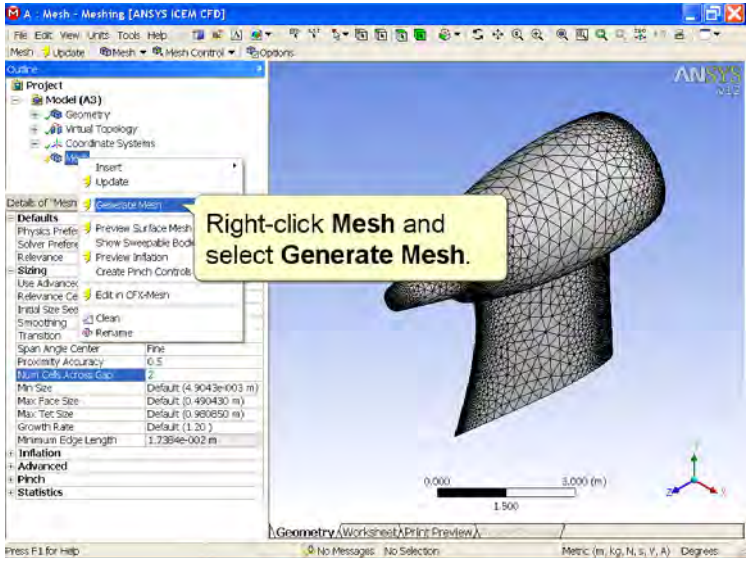


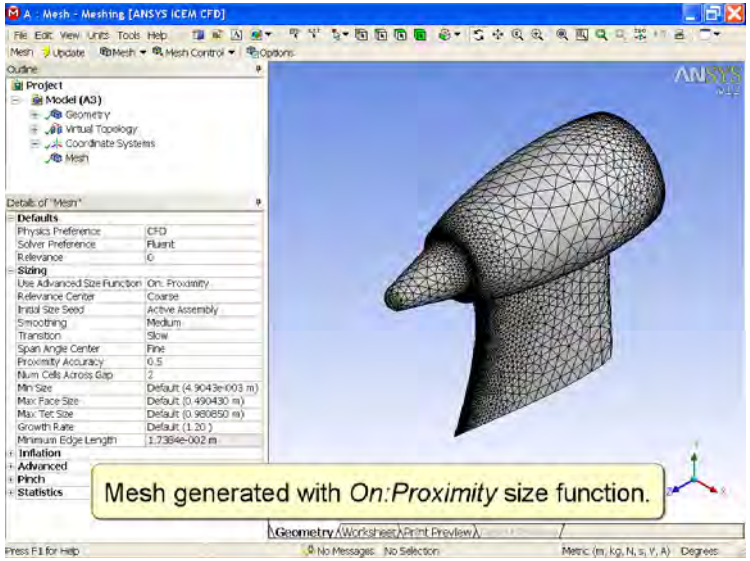


Meshing - Advanced Size Function

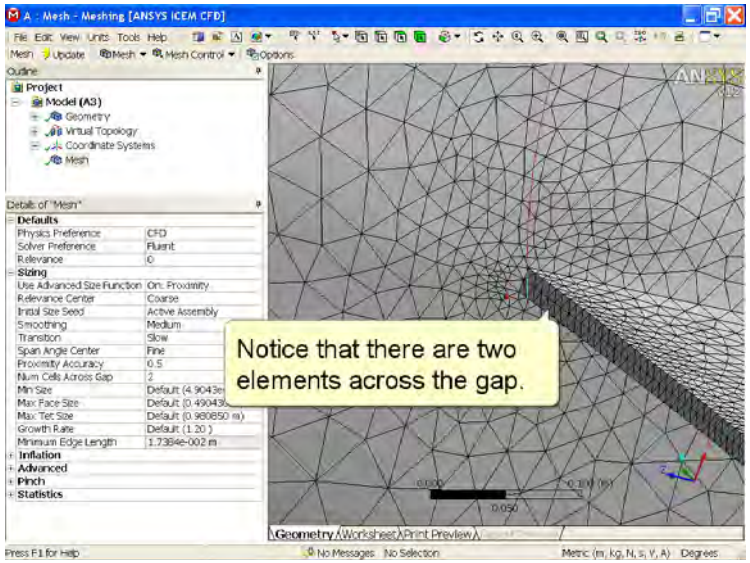


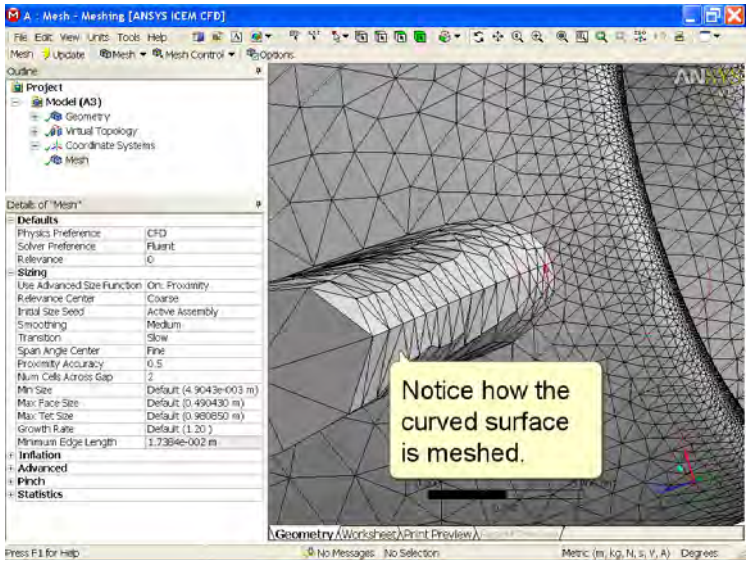






Meshing - Advanced Size Function

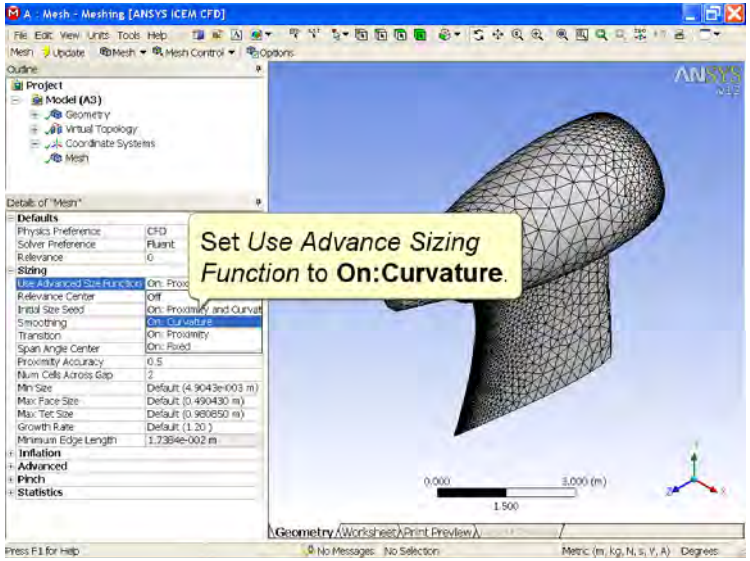




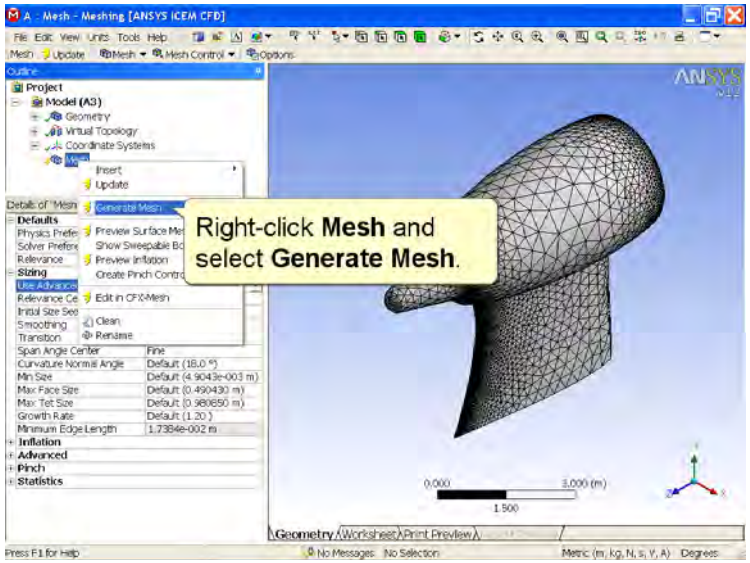
Advanced Size Function: On: Curvature

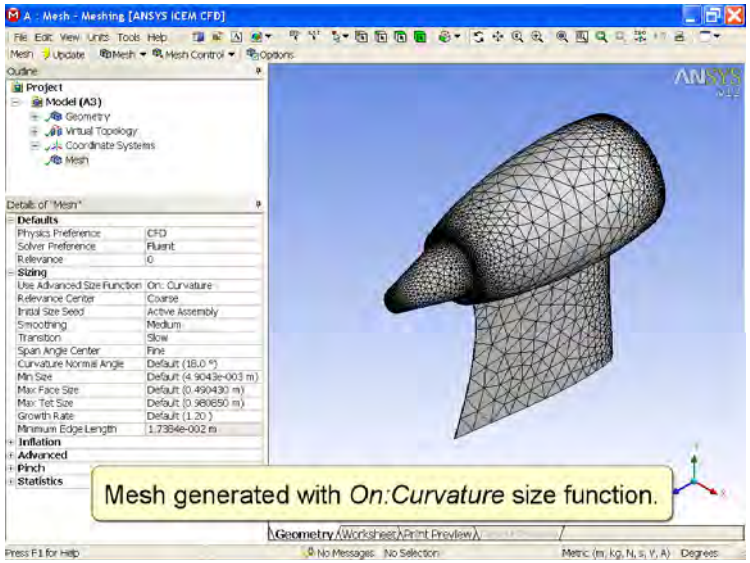
The *Curvature Size Function* examines curvature on edges and faces and computes element sizes on these entities such that the size will not violate the maximum size or the curvature normal angle, which are either automatically computed by the mesher or defined by the user.

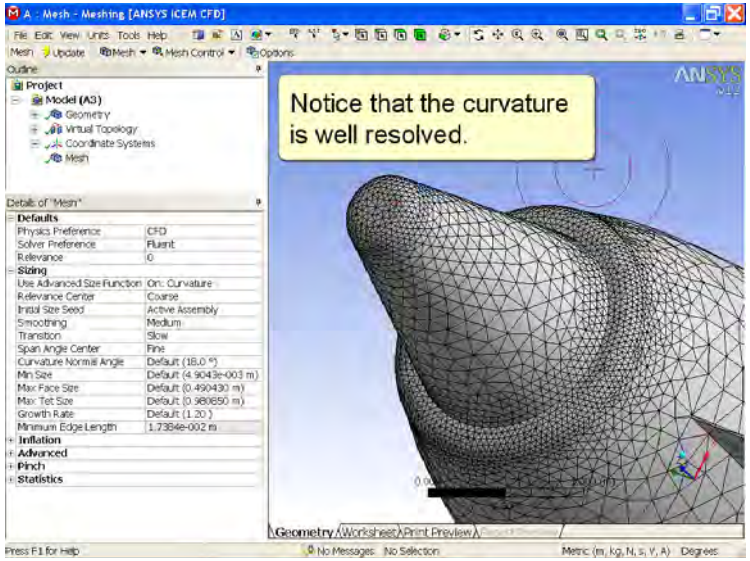
Click Here to Continue



Meshing - Advanced Size Function







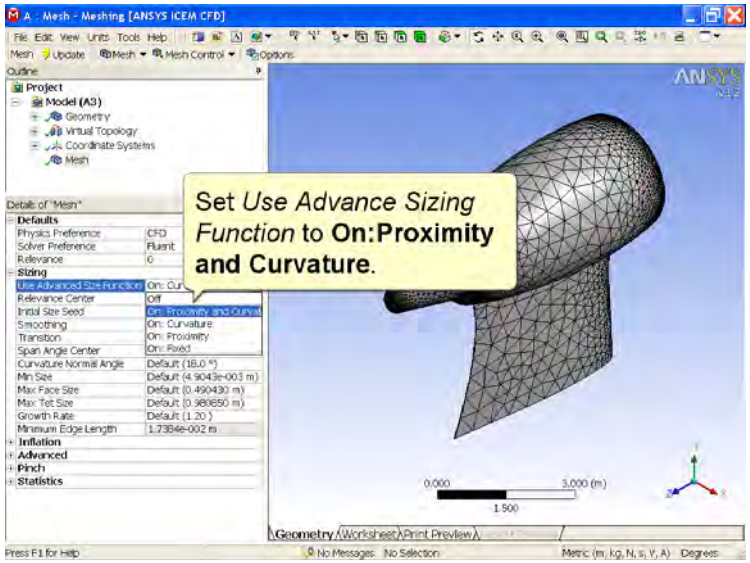
Advanced Size Function:
On: Proximity and Curvature

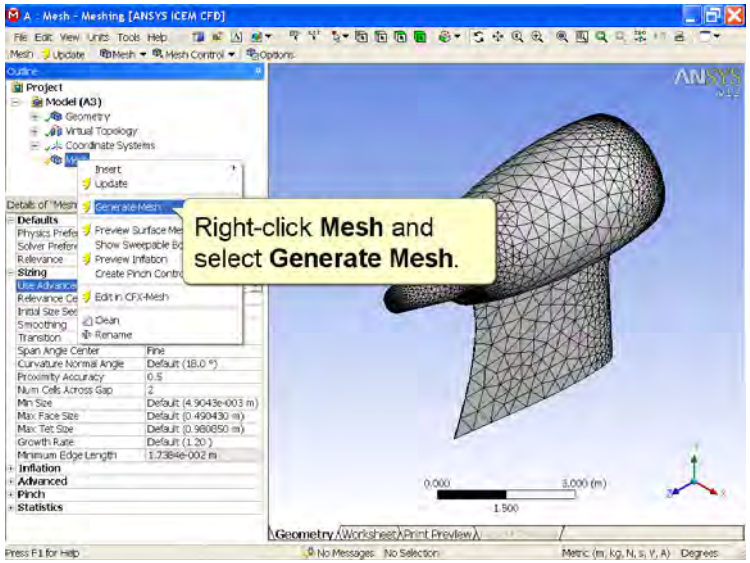
Combined effect of *Proximity* and *Curvature* can be obtained by using this function.

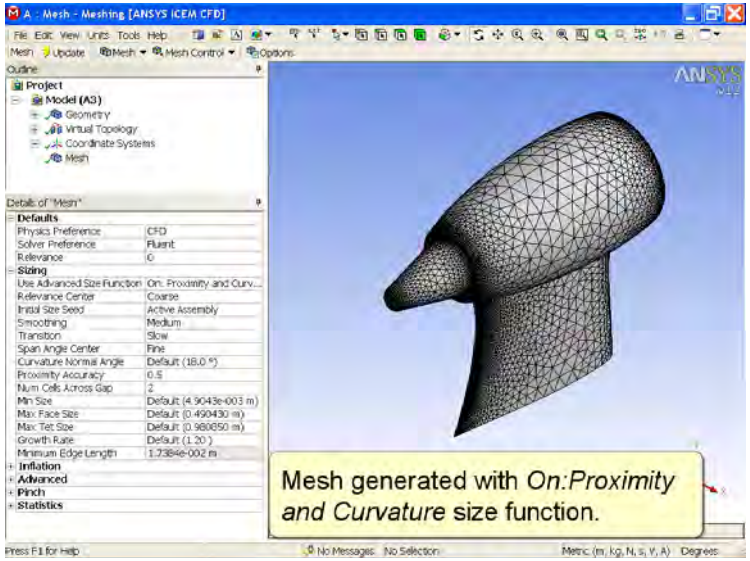
All the parameters of the *Proximity* and *Curvature* are used to define this Advance size function.

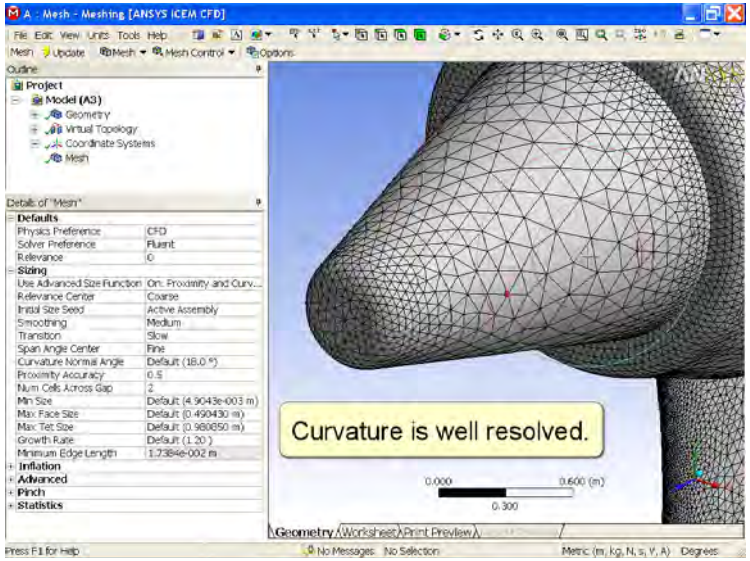
Click Here to Continue

Meshing - Advanced Size Function

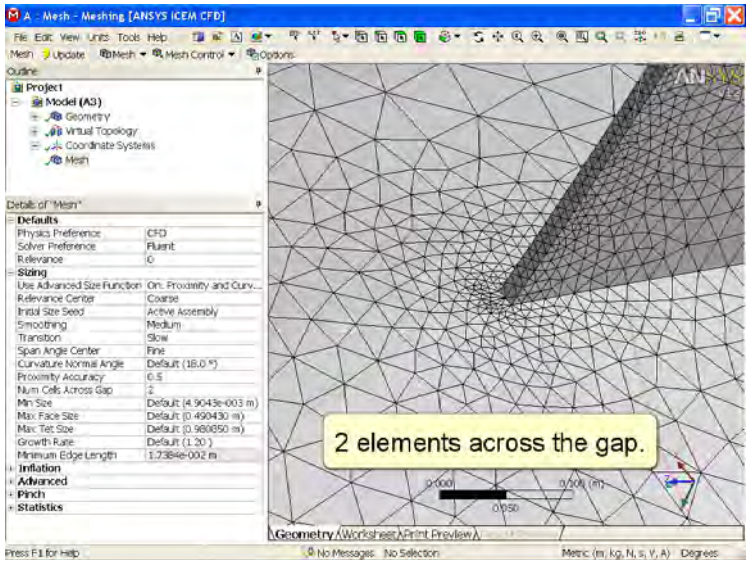


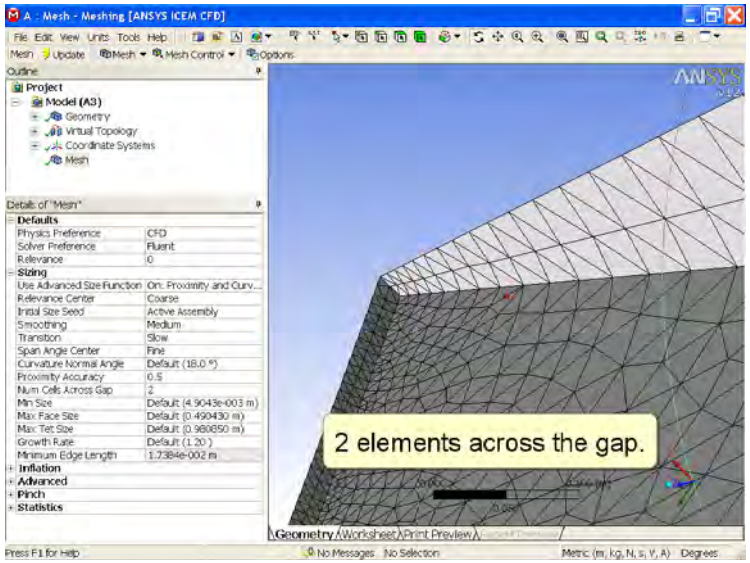


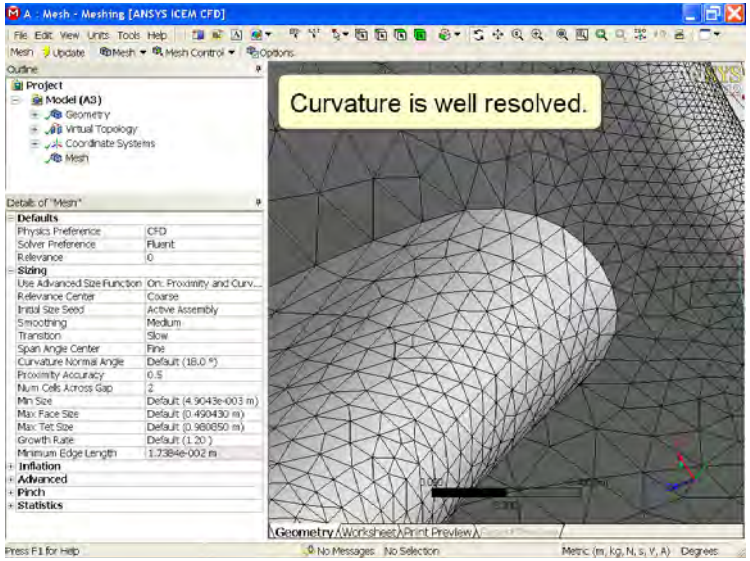




Meshing - Advanced Size Function







What Have We Learned?

How to use *Advanced Size Functions*

- *Off*
- *On: Fixed*
- *On: Proximity*
- *On: Curvature*
- *On: Proximity and Curvature*